SHARP

MINI COMPONENT SYSTEM

MODEL

CD-SW300H
CD-SW330H

OPERATION MANUAL

If you require any advice or assistance regarding your Sharp product, please visit our web-site www.sharp.co.uk/customersupport.aspx Customers without Internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).

COMPACT disc DIGITAL AUDIO

R·D·S

Plays Windows Media™

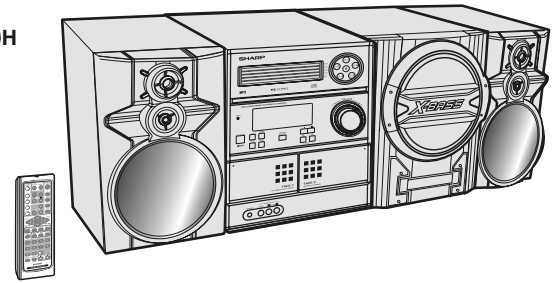
SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

ENERGY

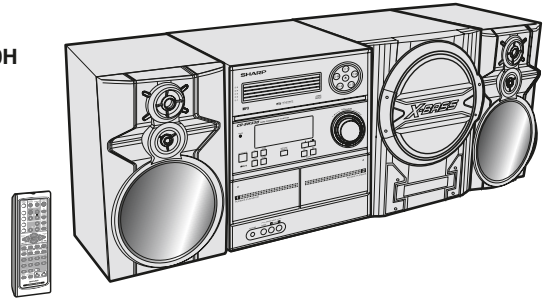
MP3 with NAVIGATION

The illustrations printed in this operation manual are for the model CD-SW300H.

CD-SW300H



CD-SW330H



CD-R/RW Playable

5-DISC CHANGER

Special notes

NOTES FOR USERS IN THE U.K. AND IRELAND

The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 5A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked ♆ or ⊕ and of the same rating as above, which is also indicated on the pin face of the plug must be used.

Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted.

In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut-off the mains plug and fit an appropriate type.

DANGER:
The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner.

Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet as a serious electric shock may occur.
To fit an appropriate plug to the mains lead, follow the instructions below:

IMPORTANT:
The wires in the mains lead are coloured in accordance with the following code:
Blue : Neutral
Brown : Live

As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire which is coloured blue must be connected to the plug terminal which is marked N or coloured black.
- The wire which is coloured brown must be connected to the plug terminal which is marked L or coloured red.

Ensure that neither the brown nor the blue wire is connected to the earth terminal in your three pin plug.

Before replacing the plug cover, make sure that:

- If the new fitted plug contains a fuse, its value is the same as that removed from the cut-off plug.
- The cord grip is clamped over the sheath of the mains lead and not simply over the lead wires.

IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN.

SERVICE INFORMATION
In the unlikely event of your equipment requiring repair, please contact the dealer or supplier from whom it was purchased. Where this is not possible, please visit our web-site www.sharp.co.uk/customersupport.
Customers without internet access may telephone 08705 274277 during office hours (or (01) 676 0648 if telephoning from Ireland).
Please note; all calls will be charged at local rate.

Certain replacement parts and accessories may be obtained from our main parts distributor.

WILLOW VALE ELECTRONICS LTD.
0121 766 5414

In the unlikely event of this equipment requiring repair during the guarantee period, you will need to provide proof of the date of purchase to the repairing company.
Please keep your invoice or receipt, which is supplied at the time of purchase.

WARNINGS

- When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit. When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.
- This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.
- To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

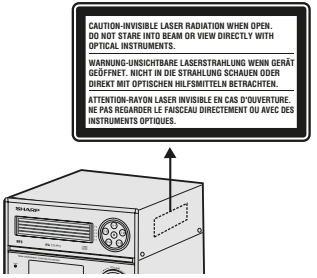
- This product is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

For CD-SW300H
Laser Diode Properties
Material: GaAlAs
Wavelength: 795 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW

For CD-SW330H
Laser Diode Properties
Material: GaAs + GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.4 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

NOTES:

- Recording and playback of any material may require consent, which SHARP is unable to give. Please refer particularly to the provisions of the Copyright Act 1956, the Dramatic and Musical Performers Protection Acts 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

Information on Proper Disposal

Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.
*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.

Introduction

Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

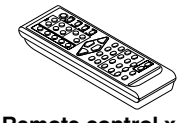
- CD-SW300H Mini Component System consisting of CD-SW300H (main unit),CP-S300H (front speaker) and CP-SW300H (subwoofer).
- CD-SW330H Mini Component System consisting of CD-SW330H (main unit),CP-S330H (front speaker) and CP-SW330H (subwoofer).

Special Note

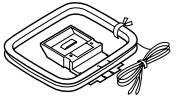
Supply of this product does not convey a license nor imply any right to distribute content created with this product in revenue-generating broadcast systems (terrestrial, satellite, cable and/or other distribution channels), revenue-generating streaming applications (via Internet, intranets and/or other networks), other revenue-generating content distribution systems (pay-audio or audio-on-demand applications and the like) or on revenue-generating physical media (compact discs, digital versatile discs, semiconductor chips, hard drives, memory cards and the like). An independent license for such use is required. For details, please visit http://mp3licensing.com
MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

Accessories

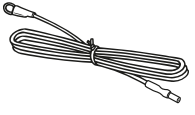
Please confirm that the following accessories are included.



Remote control x 1



AM loop aerial x 1



FM aerial x 1

Note:
Only the above accessories are included.

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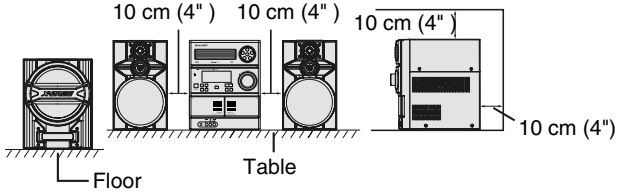
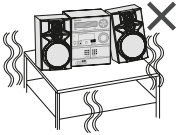
Precautions

■ General

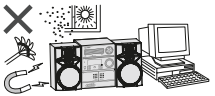
- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



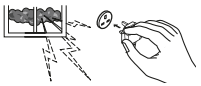
- **Do not place subwoofer system on the same surface as main unit to prevent sound interruption during playback.**
- Use the unit on a firm, level surface free from vibration.



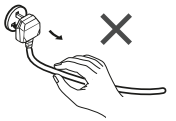
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.



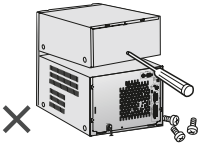
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60˚C (140˚F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.



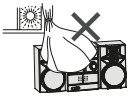
- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.
- The AC power plug is used as disconnect device and shall always remain readily operable.



- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.



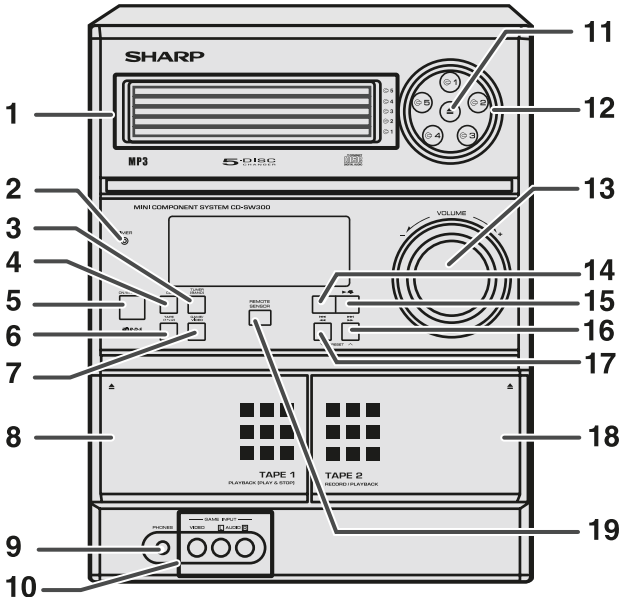
- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5˚C - 35˚C (41˚F- 95˚F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels. Excessive sound pressure from earphones and headphones can cause hearing loss.

Controls and indicators



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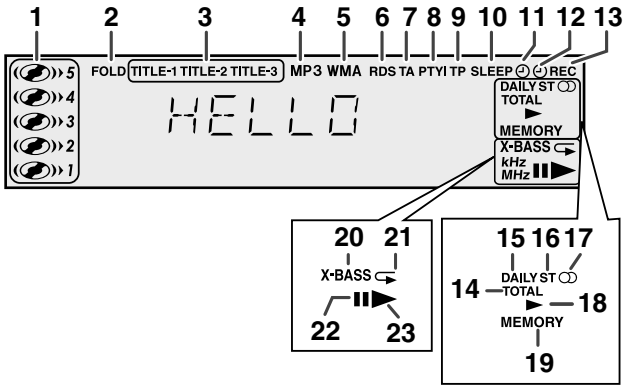

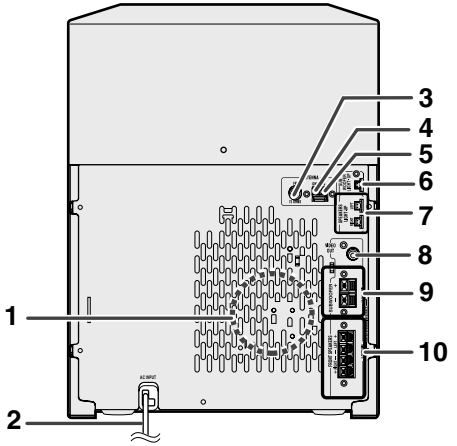

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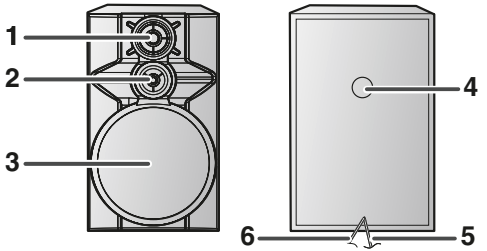
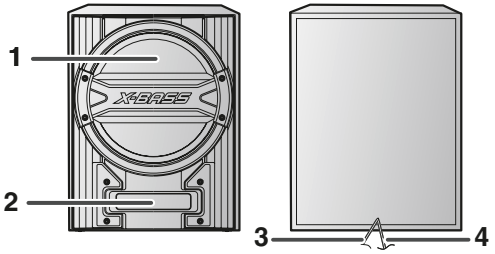


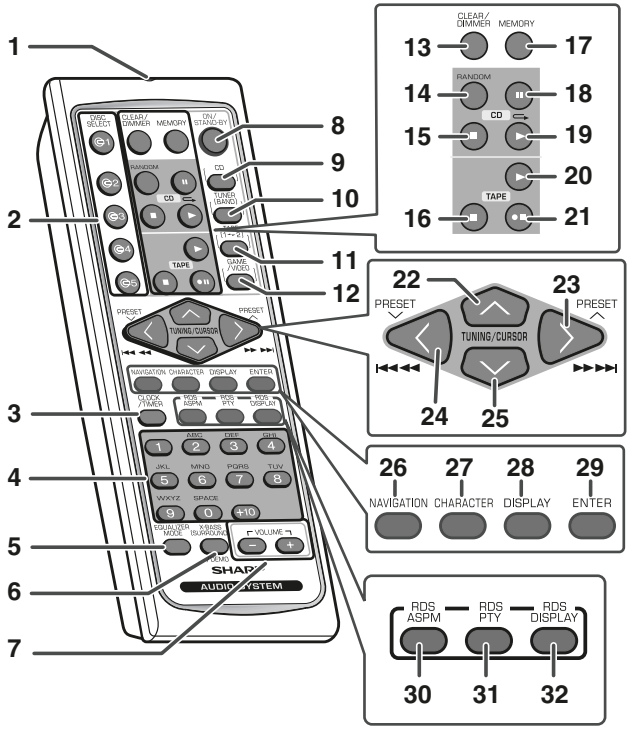
■ Front Speaker

1. Tweeter
2. Super Tweeter
3. Woofer
4. Bass Reflex Duct
5. Speaker Wire
6. Speaker Light-Up Wire



■ Subwoofer

1. Subwoofer
2. Bass Reflex Duct
3. Subwoofer Light-Up Wire
4. Speaker Wire



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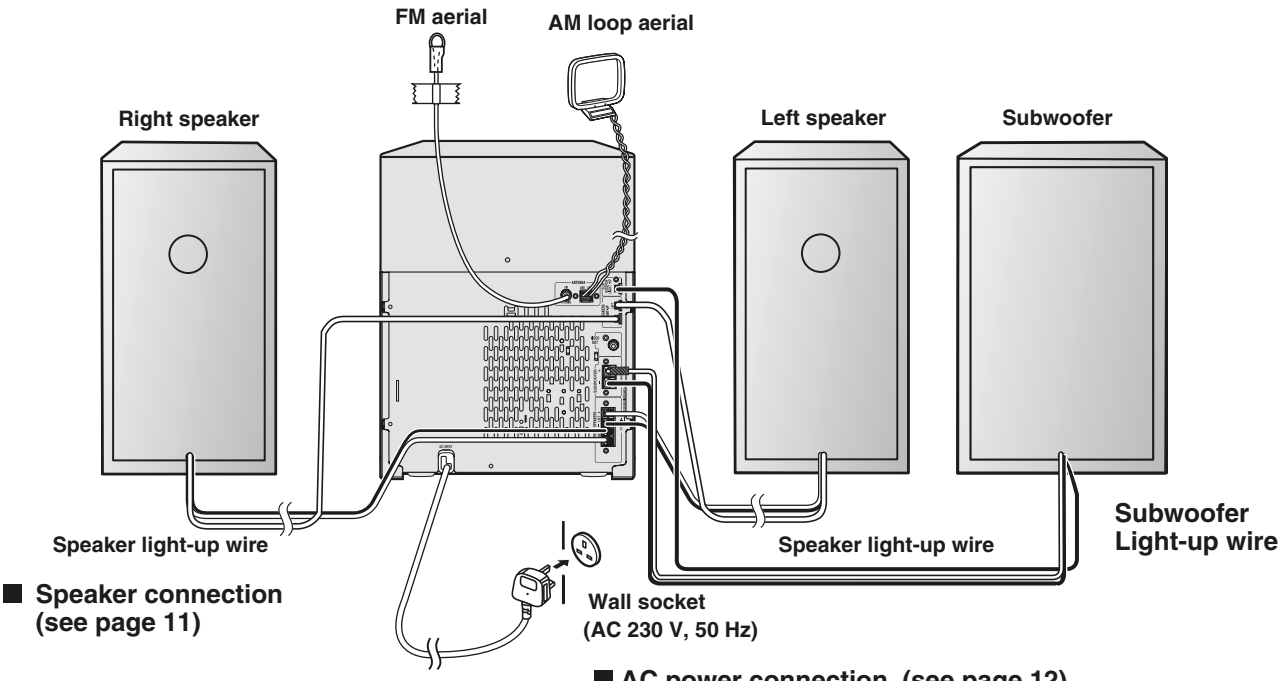
12. Game/Video Button 42
13. Clear/Dimmer Button 14, 21
14. Disc Random Button 20
15. Disc Stop Button 18
16. Tape Stop Button 29
17. Memory Button 15, 21, 27, 38
18. Disc Pause Button 18
19. Disc Play or Repeat Button 17
20. Tape Play Button 28
21. Tape 2 Record Pause Button 30
22. Tuning Up, Cursor Up Button 26
23. Disc Track Up or Fast Forward, Tape Fast Forward, Tuner Preset Up, Time Up, Cursor Right Button 15, 18, 27, 29
24. Disc Track Down or Fast Reverse, Tape Rewind, Tuner Preset Down, Time Down, Cursor Left Button 15, 18, 27, 29
25. Tuning Down, Cursor Down Button 26
26. MP3/WMA Navigation Mode Select Button 22
27. Character Button 22
28. MP3/WMA Display Button 18
29. Enter Button 22
30. RDS ASPM Button 32
31. RDS PTY Button 32
32. RDS Display Button 32

System connections

Make sure to unplug the AC power lead before any connections.

■ Aerial connection (see page 11)



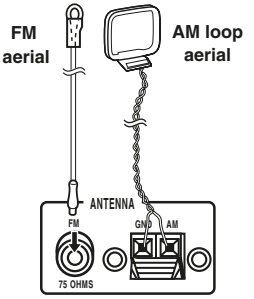
■ Speaker connection (see page 11)

■ AC power connection (see page 12)

■ Aerial connection

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

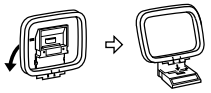
Supplied AM loop aerial:
Connect the AM loop aerial to the AM and EARTH (GND) terminals. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).



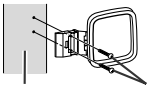
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >



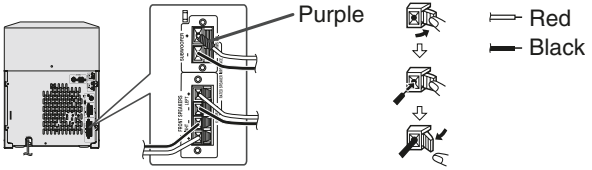
< Attaching to the wall >



■ Speaker connection

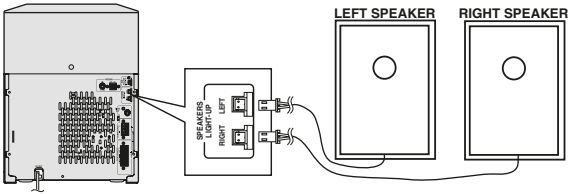
FRONT SPEAKERS:
Connect the black wire to the FRONT SPEAKERS minus (-) terminal, and the red wire to the FRONT SPEAKERS plus (+) terminal.

SUBWOOFER:
Connect the black wire to the SUBWOOFER minus (-) terminal, and the red wire with purple insulation tube to the SUBWOOFER plus (+) terminal.



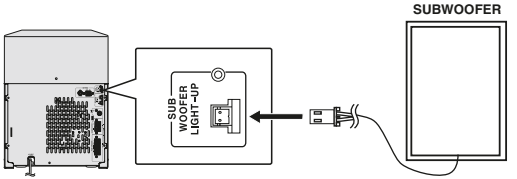
■ Speaker Light-Up connection

1. Connect the speaker light-up wires to the SPEAKERS LIGHT-UP sockets for speaker illumination. To turn off the speaker light-up feature, press the CLEAR/DIMMER button on the remote control for 2 seconds or more.



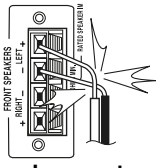
Note:
Placing the right speaker light-up wire to the RIGHT socket and the left speaker light-up wire to the LEFT socket.

2. Connect the subwoofer light-up wire to the SUBWOOFER LIGHT-UP socket.



Caution:

- Never mistake the FRONT SPEAKERS and the SUBWOOFER terminals. The unit or the speakers may be damaged.
- If you use other speakers with an impedance lower than that specified, the unit may be damaged. Front speakers: 6 ohms, Subwoofer: 12 ohms.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not stand or sit on the speakers. You may be injured.
- Do not allow any objects to fall into or to be placed in the bass reflex duct.

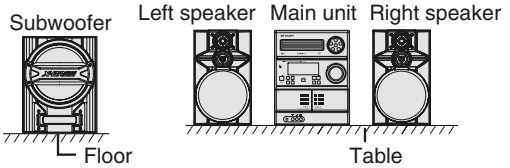


Incorrect

System connections (continued)

■ Placing the speaker system

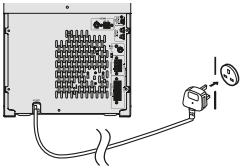
There is no distinction between the right and left speakers.



Note:
The speaker grilles are not removable.

■ AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.



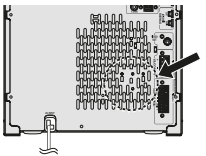
Wall socket
(AC 230 V, 50 Hz)

Notes:

- The unit will start the tape initialisation when plugged in to the wall socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

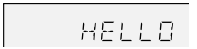
Cooling fan:

The main unit is built with a cooling fan at the rear of the unit for improved cooling. Please do not cover the opening of the fan with any obstacles, as this will block proper ventilation.

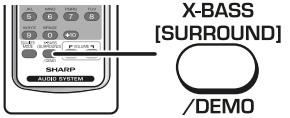


■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll and the subwoofer and front speaker will light up in flashing mode.



To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS (SURROUND)/DEMO button. The unit will enter the low power consumption mode and the subwoofer and front speaker light up will be off.

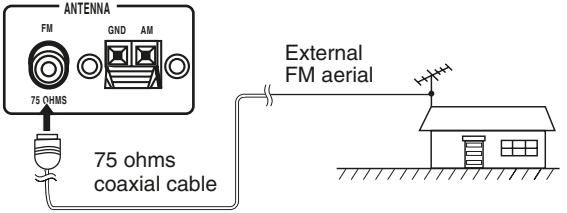


To return to the demonstration mode:
When the unit is in the power stand-by mode, press the X-BASS (SURROUND)/DEMO button again.

Note:
When the power is on, the X-BASS (SURROUND)/DEMO button can be used to select the extra bass mode.

■ External FM aerial

Use an external FM aerial if you require better reception. Consult your dealer.



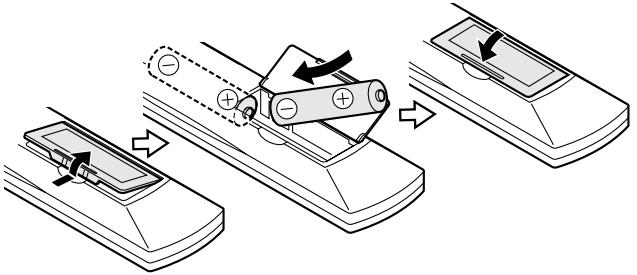
Note:
When an external FM aerial is used, disconnect the supplied FM aerial wire.

Remote control

■ Battery installation

Use 2 “AA” size batteries (UM/SUM-3, R6, HP-7 or similar).
Batteries are not included.

1 Open the battery cover.
2 Insert the batteries according to the direction indicated in the battery compartment (back of the battery cover).
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 Close the battery cover.



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit will not be used for long periods of time. This will prevent potential damage due to battery leakage.

Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfuction.
- Batteries (battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

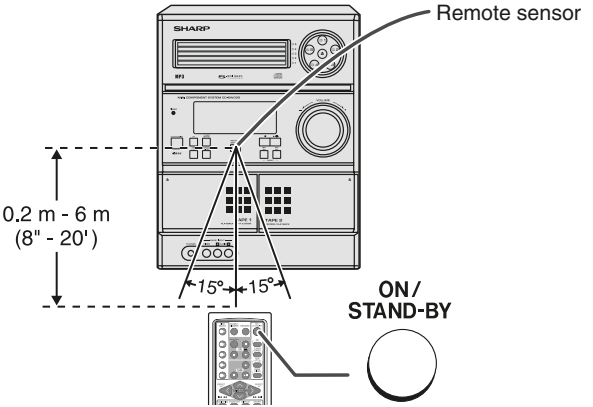
Battery removal:
Open the battery cover and pull up the battery to take out.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

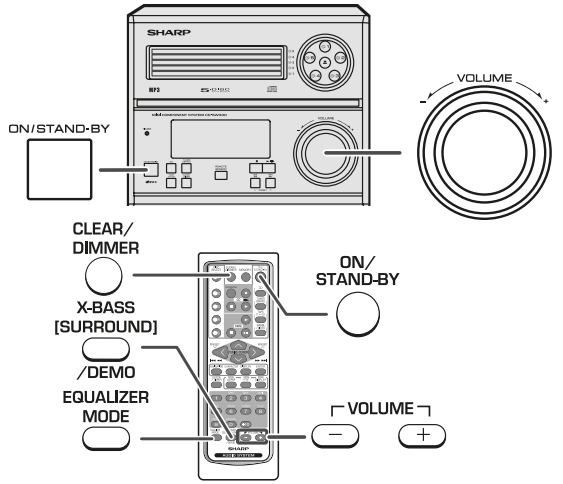
■ Test of the remote control

Check the remote control after checking all the connections (see pages 10 - 12).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



General control



■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

■ Illumination light control

When the power is turned on, light illuminates around the display. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

■ Subwoofer and front speaker light up control

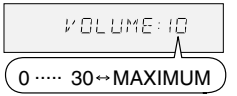
The subwoofer and front speaker will light up according to the level of the music source played back. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

■ Volume auto fade-in

If you turn off and on the main unit with the volume set to 27 or higher, the volume starts at 16 and fades in to the last set level.

■ Volume control

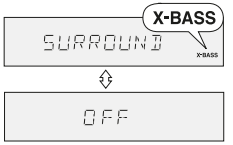
Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.



Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.

■ Surround mode

When the X-BASS (SURROUND)/DEMO button is pressed, the unit will enter the surround mode and adjust low bass and high frequency automatically according to volume input. To cancel this mode, press the X-BASS (SURROUND)/DEMO button again.



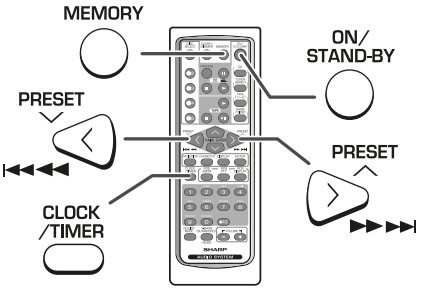
■ Equaliser

When the power is first turned on, the unit will enter FLAT mode. When the EQUALIZER MODE button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER MODE button repeatedly until the desired sound mode appears.

In CD/TUNER/TAPE mode		In GAME/VIDEO mode	
FLAT	No equalisation.	FLAT	No equalisation.
ROCK	For rock music.	ROCK	For rock music.
CLASSIC	For classical music.	CLASSIC	For classical music.
POPS	For pop music.	ACTION	For action games.
VOCAL	Vocals are enhanced.	SPORTS	For sports games.
JAZZ	For jazz.	RACING	For car racing games.

Note:
If the EQUALIZER MODE button is pressed in the surround mode, it will be cancelled automatically.

Setting the clock (Remote control only)



In this example, the clock is set for the 24-hour (0:00) display.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CLOCK/TIMER button.**

3 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "CLOCK", and press the MEMORY button.**

4 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select 24-hour or 12-hour display and then press the MEMORY button.**

→"0:00" → The 24-hour display will appear. (0:00 - 23:59)
↓
"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
↓
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)

5 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the hour and then press the MEMORY button.**

Press the ⏮ ◀◀ or ▶▶ ⏭ button once to advance the time by 1 hour. Hold it down to advance continuously.

6 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the minutes and then press the MEMORY button.**

Press the ⏮ ◀◀ or ▶▶ ⏭ button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.

To confirm the time display:
[When the unit is in the stand-by mode]
Press the CLOCK/TIMER button.
The time display will appear for about 10 seconds.

[When the power is on]
Press the CLOCK/TIMER button.
Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to display the time.
The time display will appear for about 10 seconds.

Note:
The "CLOCK" will appear or time will flash to confirm the time display when the AC power supply is restored after a power failure or unplugging the unit. If incorrect, readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" does not appear in step 3, step 4 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 45 for details.]
2 Perform "Setting the clock" from step 1.

Listening to a CD or MP3/WMA disc

This system can play back a standard CD, CD-R/RW in the CD format and CD-R/RW with MP3 or WMA files, but cannot record on them. Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the device that was used for recording.

MP3:
MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

- This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.
- Bitrate which is supported by MP3 is 32 ~ 320 kbps.

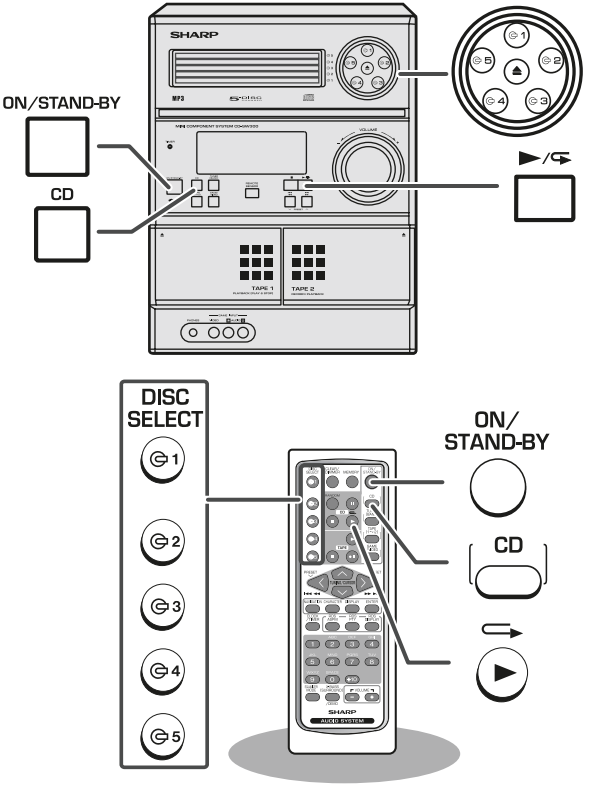
WMA:
WMA files are Advanced System Format files that include audio files which are compressed with Windows Media Audio codec. WMA is developed by Microsoft as an audio format file for Windows Media Player.

- "MP3" or "WMA" indicator will light up after the unit reads information on an MP3 or WMA disc.
- Bitrate which is supported by WMA is 64 ~ 160 kbps.

Auto power on function:
When you press any of the following buttons, the unit turns on.

- CD button (main unit and remote control): The unit turns on and the "CD" function is activated.
- CD ▶ / ⥃ button on the remote control: The unit turns on and CD playback starts (regardless of the last function).
- ▶ / ⥃ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,GAME/VIDEO).

Auto power off function:
In the stop mode of CD, MP3 or WMA operation, the main unit enters the stand-by mode after 15 minutes of inactivity.



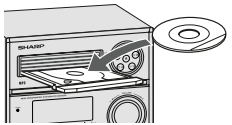
1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CD button.**

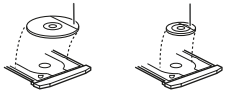
3 **Press the ⓒ 1 button and within 5 seconds, press the ⏏ button to open the disc tray 1.**

4 **Place the disc on the disc tray 1, label side up.**

Be sure to place 8 cm (3") disc in the middle of the disc trays.



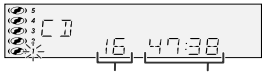
12 cm (5") 8 cm (3")



5 **Press the ⏏ button to close the disc tray 1.**

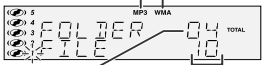
MP3 indicator
WMA indicator

[CD]



Total number of tracks on the disc
Total playing time of the disc

[MP3/WMA]



Total number of folders
Total number of files

- Due to the structure of the disc information, it takes longer to read an MP3/WMA disc than a normal CD (approximately 20 to 90 seconds).

6 **You can place discs on the trays 2 - 5 by following steps 3 - 5.**

7 **Press the ►/⊂ button to start playback.**

Disc play indicator

- Playback will begin from track 1 on disc 1. After that disc finishes playing, the next disc will automatically play.
- After the last track on the fifth disc is played, the unit will stop automatically.
- When there is no disc in one of the disc trays (1 - 5), the empty tray will be skipped to the next tray with a disc.

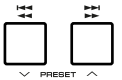
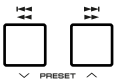
To exchange other discs whilst playing a disc:
Press one of the ⓒ 1 - ⓒ 5 buttons for the stopped disc and within 5 seconds, press the ⏏ button and exchange discs.

To remove the discs:
In the stop mode, press the ⓒ 1 - ⓒ 5 button and within 5 seconds, press the ⏏ button.

Caution:
- Do not place two discs in one disc tray.
- Do not play discs of special shapes (heart, octagon, etc.) as it may cause malfunctions.
- Do not push the disc tray whilst it is moving.
- If the power fails whilst the tray is open, wait until the power is restored.
- If the disc tray is stopped with force, “ER-CD21” will appear on the display for 3 seconds and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power stand-by mode and then turn the power on again.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will skip or not play.

Listening to a CD or MP3/WMA disc (continued)

■ Various disc functions

Function	Main unit	Remote control	Operation
Play			Press in the stop mode.
Stop			Press in the playback mode.
Pause			Press in the playback mode. Press the ► / ⊂ button to resume playback from the paused point.
Track up/ Track down			Press in the playback or stop mode. If you press the button in the stop mode, press the ► / ⊂ button to start the desired track.
Fast forward/Fast reverse			Press and hold down in the playback mode. Release the button to resume playback.

Notes for CD:

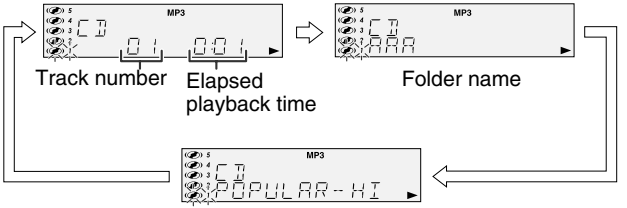
- Track up/track down is possible only within individual discs.
- Fast forward/fast reverse is possible only within individual discs.
- When the end of the last track is reached during fast forward, “END” will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.

Notes for MP3/WMA discs:

- Track up/track down is possible only within individual discs.
- The sound is heard during fast forward/fast reverse with a CD, but not with an MP3/WMA disc. For fast forward or fast reverse of an MP3/WMA disc, refer to playback time on the display.
- Fast forward/fast reverse is possible only within individual tracks.
- When the end of the track is reached during fast forward, the next track will be played. Playback of the track will begin when its beginning is reached during fast reverse.
- Rewritable multi-session discs with unfinished writing, can still be played.

■ To change the display (MP3/WMA discs only)

Whilst a disc is playing, press the DISPLAY button.
Each time the button is pressed, the display will change as follows.

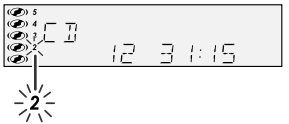


Advanced CD or MP3/WMA disc playback

■ To specify a disc to play

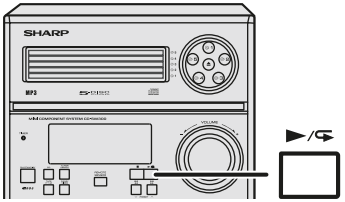
You can play a disc by specifying the disc number.

1 Press one of the ⊜1 - ⊜5 buttons to select the desired disc.



Selected disc number

2 Within 5 seconds, press the ► / ⊂ button on the main unit.



- Playback will begin from track 1 on the chosen disc.
- After the last track on the last disc is played, the unit stops automatically.

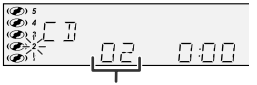
Note:
If a disc tray with no disc is selected, playback will not start and the disc indicator will go out.

To stop playback:
Press the ■ (CD ■) button.

■ Direct track search

By using the direct search buttons, the desired tracks on the current disc can be played.

Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.

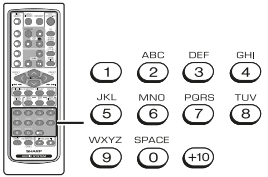


Selected track number

- The direct search buttons allow you to select up to number 9.
- When selecting number 10 or higher, use the “+10” button.

A. For example, to choose 13

1 Press the “+10” button once.
2 Press the “3” button.



B. For example, to choose 130

1 Press the “+10” button twice.
2 Press the “1” button.
3 Press the “3” button.
4 Press the “0” button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⊂ button to start the desired track on the current disc.

Notes:
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

Advanced CD or MP3/WMA disc playback (continued)

■ Repeat play

Repeat play can play all 5 discs, all tracks on a chosen disc, or a programmed sequence continuously.

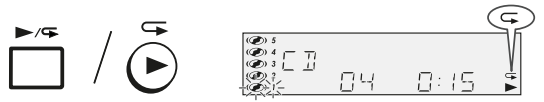
To repeat one disc:

Press the ► / ⊂ button twice.

To repeat all tracks on up to 5 discs:
Press the ► / ⊂ button three times.

To repeat desired tracks:

Perform steps 1 - 6 in “Programmed play” section on page 21 and then press the ► / ⊂ button twice.



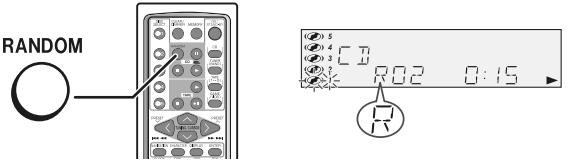
To cancel repeat play:
Press the ► / ⊂ button again.
“⊂” will disappear.

■ Random play

The tracks on the disc(s) can be played in random order automatically.

To random play all tracks on up to 5 discs:

Press the RANDOM button on the remote control.



To cancel random play:
Press the ► / ⊂ button.
“R” will disappear.

Notes:

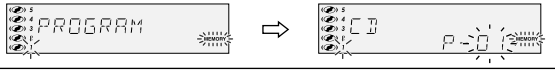
- If you press the ►►I button during random play, you can move to the next track by the random operation. However, the I◄◄ button does not allow you to move to the previous track. It will go to the beginning of the current track instead.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:
After performing repeat or random play, be sure to press the ■ (CD ■) button. Otherwise, the disc(s) will play continuously.

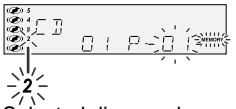
■ Programmed play

You can choose up to 32 selections for playback in the order you like.

1 **Whilst in the stop mode, press the MEMORY button on the remote control to enter the programming save mode.**

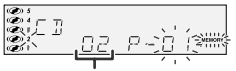


2 **Press one of the ⓒ 1 - ⓒ 5 buttons to select the desired disc.**



Selected disc number

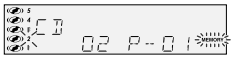
3 **Press the direct search buttons on the remote control to select the desired track.**



Selected track number

You can also select a track by pressing the ⏮ or ⏭ button.

4 **Press the MEMORY button to save the track number.**

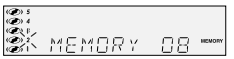


5 **Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.**

If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR/DIMMER button.

6 **Press the ■ (CD ■) button.**

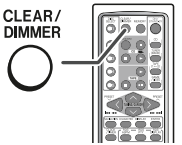
The total number in memory will appear.



7 **Press the ► /⊂ button to start playback.**

To clear the programmed selections:

Press the CLEAR/DIMMER button on the remote control whilst the "MEMORY" indicator is flashing.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.



To cancel the programmed play mode:

Whilst in the stop mode and the "MEMORY" indicator is lit, press the CLEAR/DIMMER button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Adding tracks to the programme:

If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:

Whilst the unit is stopped in the programmed play mode, press the ⏮ or ⏭ button.

Notes:

- When a disc with programmed tracks is ejected, the programme is automatically cancelled.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
- During the programme operation, random play is not possible.

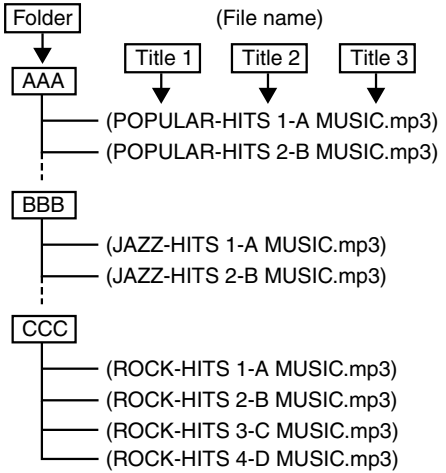
MP3/WMA navigation (only for MP3/WMA files)

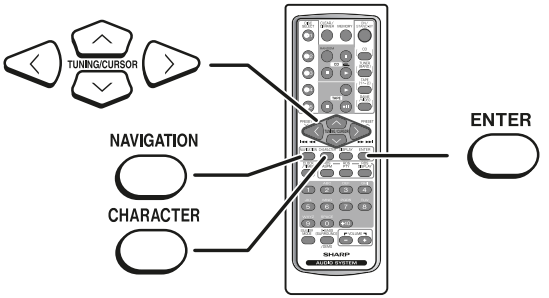
MP3/WMA navigation:
You can search and play files by folder or title. For example, when you assign three titles to a file, enter genre (such as jazz) as title 1, album name as title 2, and music title as title 3 to search the file by any title.

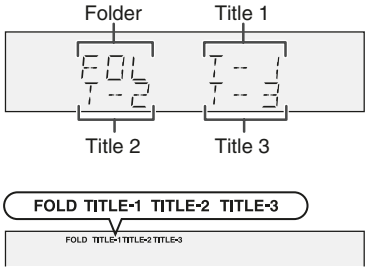
- You can search and play files by folder or title 1/2/3 within one MP3/WMA disc (see page 23).
- By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc (see page 24).
- Folders or titles can be programmed within one MP3/WMA disc (see page 25).

When you enter file names on your PC, connect words with hyphens. This product recognises the first word as title 1, second one as title 2, and third one as title 3. Up to three words can be recognised.

Example:







Notes:

- MP3 files must have the extension ".mp3".
- WMA files must have the extension ".wma".
- Up to 100 folders or 300 files can be read on the unit. If either limit is exceeded, no more folders/files are displayed.
- This unit recognises and displays up to 48 characters for folder names, and up to 32 characters for title 1/2/3.
- All file/folder names appear in uppercase.

■ File search (by folder or title 1/2/3)

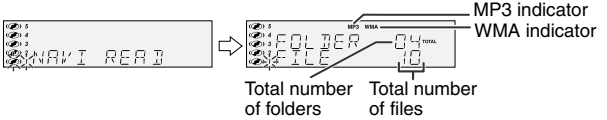
You can search and play files by folder or title 1/2/3 within one MP3/WMA disc.

1 Press one of the ⓒ 1 - ⓒ 5 buttons to select a disc tray containing an MP3/WMA disc.

2 Press the ► /⊂ button, and the unit starts to read the MP3 disc.

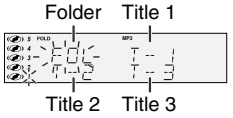
3 Press the CD ■ button to stop playback.

"NAVI READ" appears and the display shows the total number of folders and files on the selected disc.



4 Press the NAVIGATION button.

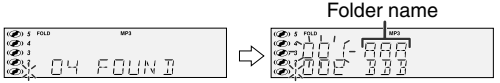
5 Press the <, >, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).



The following steps describe file search by folder:

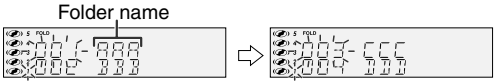
6 Press the ENTER button.

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.



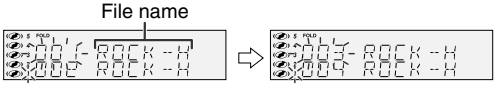
- The NAVIGATION button allows you to go one step back.
- Press the DISPLAY button to check the number of files.

7 Use the ∧ or ∨ cursor button to scroll and select a folder (or title), and then press the ENTER button.



If you press the ► /⊂ button instead of the ENTER button, all files in the selected folder (or title) are played.

8 Use the ∧ or ∨ cursor button to scroll and select a file.



9 Press the ► / ⊂ button to start playback.

The unit plays from the selected file to the last file in the selected folder (or title), and the previous display returns.

File search by title 1/2/3:

- In step 5, select "T-1", "T-2" or "T-3" and follow the same steps as file search by folder.
- The unit searches all files on the disc, regardless of the folder.

To stop playback:
Press the CD ■ button.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.

Notes:

- In the MP3/WMA navigation mode, direct search functions are disabled.
- If a folder, title or file name does not appear, or appears incorrectly, remove and reinsert the disc and try again.
- If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

MP3/WMA navigation (only for MP3/WMA files) (continued)

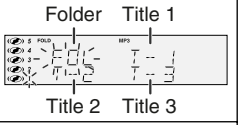
■ Character search (for folder or title 1/2/3)

By entering a name, you can search files by folder or title 1/2/3 within one MP3/WMA disc.

1 **Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 23.**

2 **Press the NAVIGATION button.**

3 **Press the <, >, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).**



4 **Press the CHARACTER button for 2 seconds.**

The display will be ready for editing characters.

1st row: String table
2nd row: Input editor (8 digits)

5 **Press the < or > cursor button to select the desired alphabet.**

Press the ⏮ or ⏭ button to go to the next page of character display.

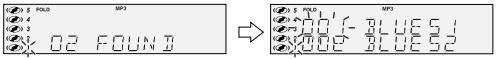
6 **Press the CHARACTER button and the active character will be entered in the 2nd row of the display.**

To delete an entered character, move the cursor to the character with the ∧ or ∨ button and press the CLEAR/DIMMER button on the remote control.

7 **Repeat steps 5 and 6 to enter characters.**

In the folder (or title) name search, you do not have to enter the full name. The unit searches for names beginning with the entered characters.

8 **When finished, press the ENTER button. The unit searches for the same name within folders (or titles).**



If the search word is not in the folder (or title) name, "NOT FOUND" appears and the menu returns.

9 **Use the ∧ or ∨ cursor button to scroll and select a folder (or title).**

10 **Press the ► / ⊂ button to start playback.**

All files in the selected folder (or title) are played, and the previous display returns.

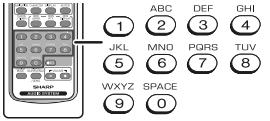
To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.

Notes:

- The unit searches regardless of the case, and names found will appear in uppercase.
- Some symbols do not appear properly.

Character entry with direct buttons:

The direct buttons on the remote control can also be used for character entry.
In step 5 on the left, use buttons 0 - 9 to enter alphabets.
Alphabet types change as you press a button.



For example, press "2" four times to enter "C".

2 ⟶ A ⟶ B ⟶ C

Characters:

1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9	SPACE 0
1	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	0 ⬚

⬚ : indicates a space.

■ Programmed play (for folder, title 1/2/3)

Folders or titles can be programmed within one MP3/WMA disc. Folder, title 1, title 2 and title 3 cannot be programmed together simultaneously.

1 **Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 23.**

2 **Press the NAVIGATION button.**

3 **Press the <, >, ∧ or ∨ cursor button on the remote control to select "FOL", "T-1", "T-2" or "T-3" and then press the ENTER button.**

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.

4 **Press the ∧ or ∨ cursor button to select the desired folder (or title) and then press the MEMORY button.**

The folder (or title) is memorised with all the files.

5 **Repeat step 4 for other folders (or titles).**

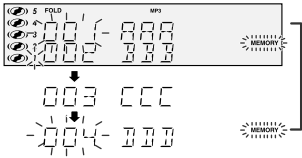
Up to 10 folders (or 10 titles) can be programmed.

6 **Press the ► / ⊂ button to start playback.**

Programmed play will always start from the smallest folder (or title) number.

To stop playback:
Press the CD ■ button.
- The programmed contents are not cleared.

To check, add or delete programmed contents:
In the stop mode, select a folder (or title) with the ∧ or ∨ cursor button. If the folder (or title) is programmed, "MEMORY" flashes.



Flashes if the folder (or title) is programmed

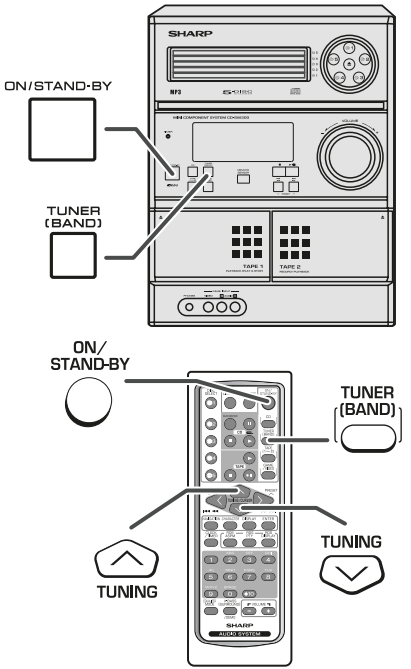
- When you press the MEMORY button with "MEMORY" flashing, the folder (or title) is removed from the programme.
- If you press the MEMORY button with "MEMORY" off, the folder (or title) is added to the programme.
- To clear all programmes, press the CLEAR/DIMMER button in the stop mode.

To exit the MP3/WMA navigation mode:
In the stop mode, press the CD ■ button.
- The programmed contents are cleared.

Notes:
- The programmed contents are cleared when you eject a disc, play another disc, switch the function, or enter the stand-by mode with the ON/STAND-BY button.
- If you press the RANDOM button in the stop mode, the MP3/WMA navigation mode will be cancelled.

If tracks are programmed using track numbers (see "Programmed play" on page 21):
In the MP3/WMA navigation mode, only programme by folder (or title) name are played. When you exit the mode, the programme by folder (or title) name are cleared.
When you exit the MP3/WMA navigation mode, programme by track number are cancelled.
(Programme by track number are cleared when you remove the disc.)

Listening to the radio



Auto power on function:
When you press any of the following buttons, the unit turns on.
- TUNER (BAND) button (main unit and remote control): The unit turns on and the "TUNER" function is activated.
- ► / ⊂ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, GAME/VIDEO).

■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**

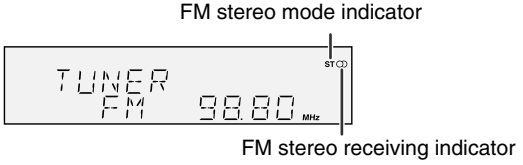
3 **Press the TUNING (∨ or ∧) button to tune in to the desired station.**

Manual tuning:
Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:
When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light up. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 33.

To receive an FM stereo transmission:
Press the TUNER (BAND) button to select stereo mode and "ST" indicator will be displayed.
- "ꝏ" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

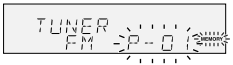


■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

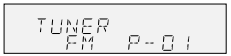
1 **Perform steps 1 - 3 in "Tuning" on page 26.**

2 **Press the MEMORY button to enter the preset tuning saving mode.**



3 **Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.**
Store the stations in memory, in order, starting with preset channel 1.

4 **Within 30 seconds, press the MEMORY button to store that station in memory.**



If the "MEMORY" and preset number indicators disappear before the station is memorised, repeat the operation from step 2.

5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**
When a new station is stored in memory, the station previously memorised for that preset channel number will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead become disconnected.

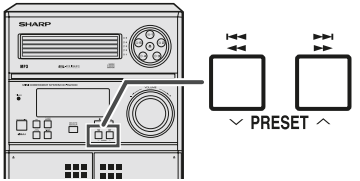
■ To recall a memorised station

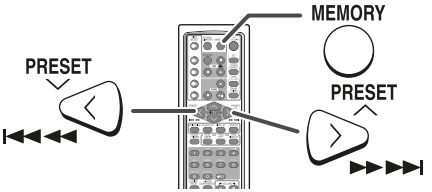
Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

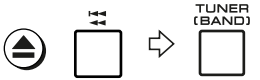
1 Press the PRESET (∨ or ∧) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
2 Press the PRESET (∨ or ∧) button again when the desired station is located.

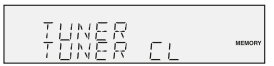




■ To erase entire preset memory

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the ⏏ button and the ⏮ ◀◀ button, press the TUNER (BAND) button until "TUNER CL" appears.

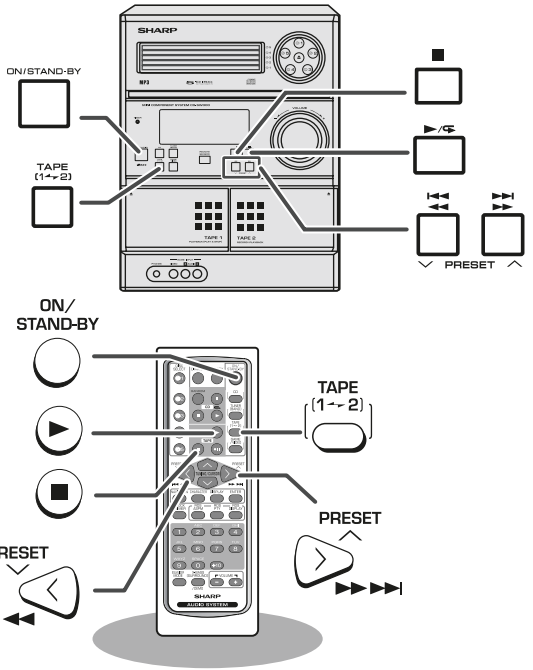




Listening to a cassette tape (TAPE 1 or TAPE 2)

Before playback:

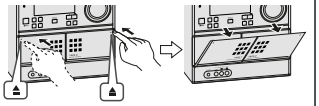
- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO_2 tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.



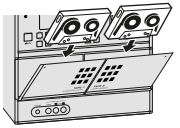
■ Tape playback

1 **Press the ON/STAND-BY button to turn the power on.**

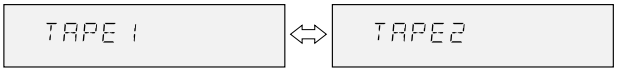
2 **Open the cassette compartment by pushing the area marked "⏏".**



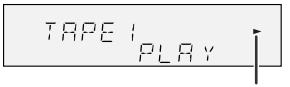
3 **Load a cassette into the TAPE 1 compartment or TAPE 2 compartment with the side to be played facing towards you.**



4 **Press the TAPE (1 ⇀ 2) button to select the cassette you want to listen to.**



5 **Press the ► / ⥲ (TAPE ►) button to start playback.**



Tape play indicator

Auto power on function:

When you press any of the following buttons, the unit turns on.

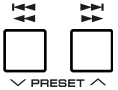
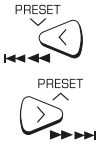
- TAPE button (main unit and remote control): The unit turns on and the "TAPE" function is activated.
- TAPE ► button on the remote control: The unit turns on and playback starts (regardless of the last function).
- ► / ⥲ button on the main unit: The unit turns on and playback of the last function starts (CD, TAPE, TUNER, GAME/VIDEO).

Auto power off function:

In the stop mode of tape operation, the main unit enters the stand-by mode after 15 minutes of inactivity.

Recording on a cassette tape

■ Various tape functions

Function	Main unit	Remote control	Operation
Playback			Press in the stop mode.
Stop			Press in the playback, fast forward or rewind mode.
Fast forward/ Rewind (TAPE 2 only)			Press in the playback or stop mode.

Caution:

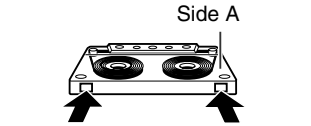
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- Before changing from one tape operation to another, press the ■ (TAPE ■) button.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until the power is restored.

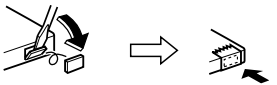
Before recording:

- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**

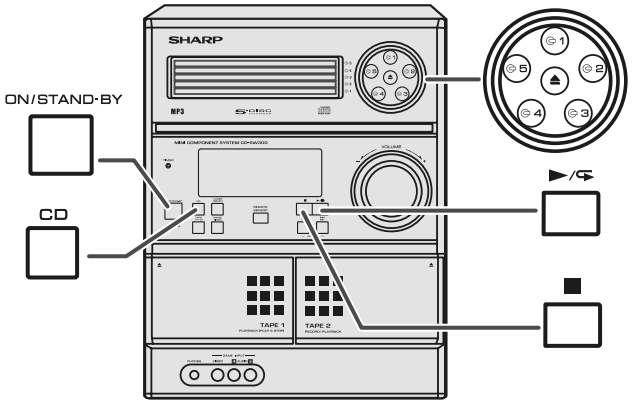
Erase-prevention tab of cassette tapes:

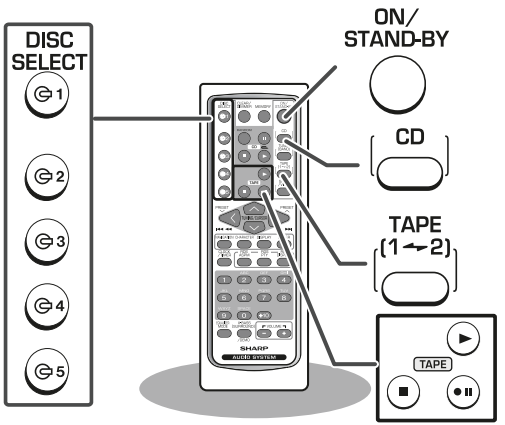
- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.





Recording on a cassette tape (continued)





■ Recording from a CD or MP3/WMA disc

1 **Press the ON/STAND-BY button to turn the power on.**

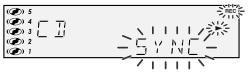
2 **Press the CD button.**

3 **Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.**

Wind past the leader of the tape, on which recording cannot be performed.

4 **Press the ●II button.**

Recording will be paused.



5 **Press one of the ⊂ 1 - ⊂ 5 buttons to select the desired disc.**

6 **Within 5 seconds, press the ►/⊂ button to start recording.**

- Recording is started from the selected disc. When the playback of the last track is finished or the end of the tape is reached, the disc and the cassette will stop automatically.
- Playback of the disc will start approximately 7 seconds after the tape starts.

To stop recording:
Press the ■ (TAPE ■) button.
The disc and tape will stop.

To perform programmed recording:

1 Programme discs and tracks (see page 21).
2 Press the ●II button.
3 Press the ► / ⊂ (TAPE ►) button to start recording.

To stop recording:
Press the ■ (TAPE ■) button.
The disc and tape will stop.

■ Recording from the radio

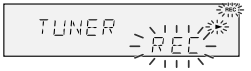
1 **Tune in to the desired station (see page 26).**

2 **Load a cassette into the TAPE 2 cassette compartment with the side to be recorded on facing you.**

Wind past the leader of the tape, on which recording cannot be performed.

3 **Press the ●II button.**

Recording will be paused.



4 **Press the ► / ⊂ (TAPE ►) button to start recording.**

To interrupt recording:
Press the ●II button.
To resume recording, press the ► / ⊂ (TAPE ►) button.

To stop recording:
Press the ■ (TAPE ■) button.

Note:
If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

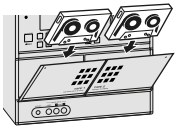
■ Dubbing from tape to tape

You can record from TAPE 1 to TAPE 2.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Load a prerecorded cassette into the TAPE 1 cassette compartment. Insert a blank tape into the TAPE 2 cassette compartment.**

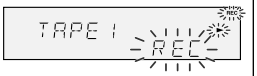
It is recommended that the recording tape is the same length as the master tape.



3 **Press the TAPE (1 ⇀ 2) button until "TAPE 1" appears on the display.**

4 **Press the ●II button.**

Recording will be paused.



5 **Press the ► / ⊂ (TAPE ►) button to start dubbing.**

To stop dubbing:
Press the ■ (TAPE ■) button.
TAPE 1 and TAPE 2 will stop simultaneously.

■ Erasing recorded tapes

1 Load the tape to be erased into the TAPE 2 cassette compartment with the side to be erased facing towards you.
2 Press the TAPE (1 ⇀ 2) button until "TAPE 2" appears on the display.
3 Press the ●II button.
4 Press the ► / ⊂ (TAPE ►) button to start erasing.

Note:
Make sure that the TAPE 1 is not in use.

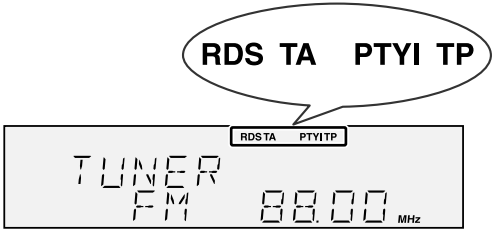
Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.

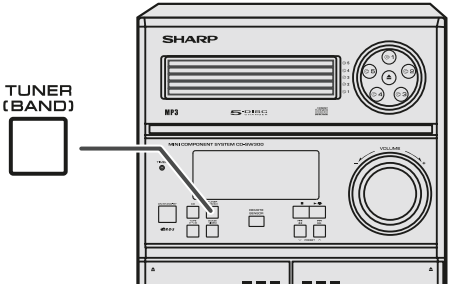
When tuned to an RDS station, “RDS” and the station name will be displayed.

“TP” (Traffic programme) will appear on the display when the received broadcast carries traffic information, and “TA” (Traffic Announcement) will appear whilst a traffic information is on air.

“PTYI” (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.

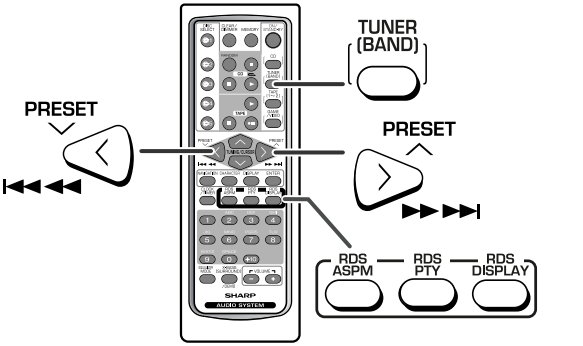


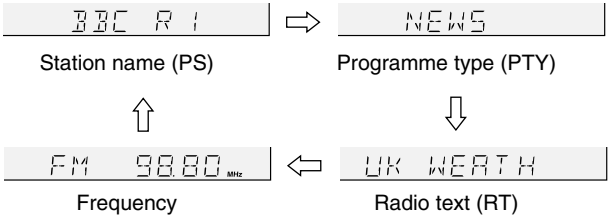
You can control the RDS by using the buttons on the remote control only.



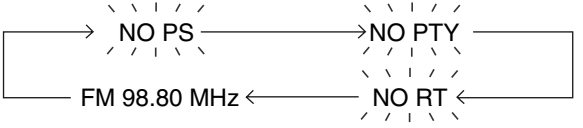
■ Information provided by RDS

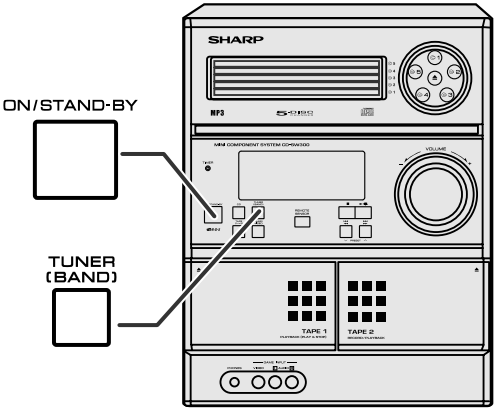
Each time the RDS DISPLAY button is pressed, the display will switch as follows:

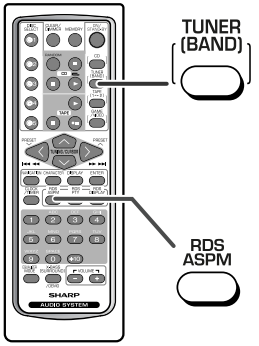




When tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:







■ Using the Auto Station Programme Memory (ASPM)

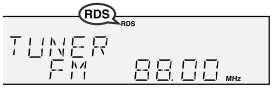
Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

1 Press the TUNER (BAND) button to select the FM band.

2 Press and hold down the RDS ASPM button for at least 3 seconds.

1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).

2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.



3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.

Using the Radio Data System (RDS) (continued)

To stop the ASPM operation before it is completed:
Press the RDS ASPM button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no stations have been stored in memory, “END” will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.

To erase all of the contents of preset memory:

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ⏏ button and the ⏮ ◀◀ button, press the TUNER (BAND) button until “TUNER CL” appears.
- After performing this operation, all of the preset memory information will be erased.

To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

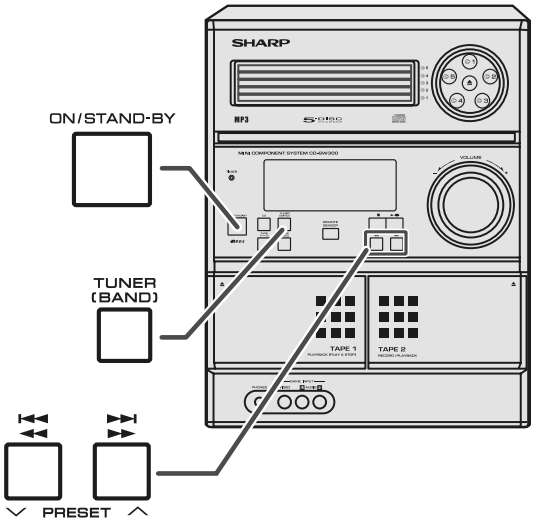
1 Press the PRESET (∨ or ∧) button to check whether the names are correct.
2 If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY button.
3 Within 30 seconds, press the MEMORY button whilst the preset channel number is flashing.
- The new station name has been stored in memory correctly.

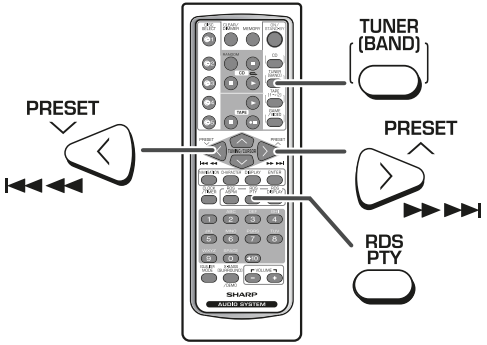
Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- “PS”, “NO PS” and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- “NO PS”, “NO PTY” or “NO RT” will flash for about 5 seconds, and then the frequency will be displayed.

Notes for radio text:
- The first 10 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, “NO RT” will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, “RT” will be displayed.





■ To recall stations in memory

To specify programmed types and select stations (PTY search):
You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 36 - 37) from the stations in memory.

1 **Press the TUNER (BAND) button to select the FM.**

2 **Press the RDS PTY button.**

SELECT ⇔ PTY TI

"SELECT" and "PTY TI" will appear alternately for about 6 seconds.

3 **Within 6 seconds, press the PRESET (∨ or ∧) button to select the programme type.**

NEWS

Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

4 **Whilst the selected programme type is flashing (within 6 seconds), press the RDS PTY button again.**

NEWS ⇨ SEARCH

After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

Using the Radio Data System (RDS) (continued)

Notes:

- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will flash for about 4 seconds, and then the station name will flash for 7 seconds, which will remain lit.
- If you want to listen to the same programme type of another station, press the RDS PTY button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, “NOT FOUND” will appear for 4 seconds.

If you select the traffic programme

If you select the traffic programme (TP) in step 3, “TP” will appear. (This does not mean that you can listen to the traffic information at that time.)

When the traffic information is broadcast, “TA” will appear.

To specify station names and select stations manually:

You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.

Before starting this operation, you must store one or more station names in memory.

1 Press the TUNER (BAND) button to select the FM band.
2 Press the PRESET (∨ or ∧) button to select a desired station.
3 The station name will be displayed for 6 seconds. Then the display will change.

Descriptions of the PTY (programme Type) codes, TP (Traffic programme) and TA (Traffic Announcement).

You can search for and receive the following PTY, TP and TA signals.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be “easy-listening”, as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called “golden age” of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No Programme type (receive only).
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

Timer and sleep operation (Remote control only)

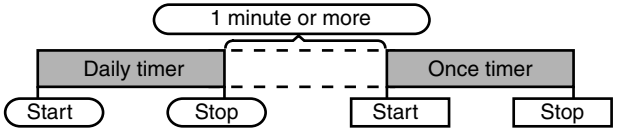
Timer playback:
The unit turns on and plays the desired source (CD, MP3 disc, tuner, tape) at a preset time.

Timer recording:
The unit turns on and starts recording from the tuner at the preset time.

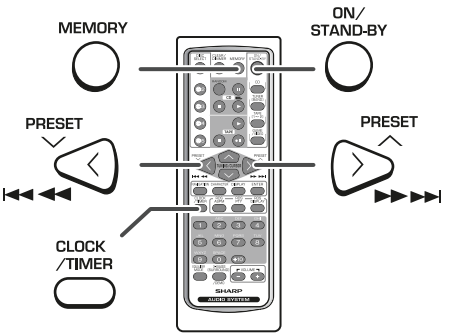
This unit has 2 types of timer: ONCE TIMER and DAILY TIMER.	
Once timer:	Once timer play or once timer recording works for one time only at a preset time.
For example, if you are away but want to record a programme on a radio station.	
Daily timer:	Daily timer play or daily timer recording works at the same preset time every day.
For example, set the timer as a wake-up call every morning.	

Using the once timer and daily timer in combination:
For example, use the once timer to record a radio programme, and use the daily timer to wake up.

1 Set the daily timer (pages 38 - 40).
2 Set the once timer (pages 38 - 40).



Note:
When set times for the daily timer and once timer overlap, the once timer takes priority. Allow an interval of at least 1 minute between operations.



■ Timer playback or timer recording

Before setting timer:

1 Check that the clock is set to the correct time (refer to page 15).
If it is not set, you cannot use the timer function.
2 For timer playback: Load a cassette or discs to be played.
For timer recording: Load a cassette for recording in the cassette compartment.

⇩

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK/TIMER button.

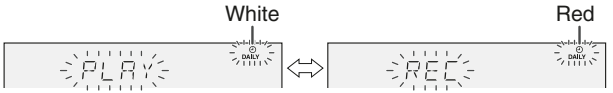
3 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY button.

ONCE ⇔ DAILY

Set the clock to the correct time if "ONCE" or "DAILY" does not appear.

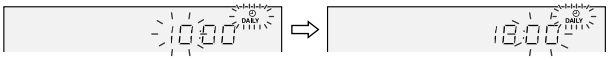
4 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE SET" or "DAILY SET", and press the MEMORY button.**

5 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select "PLAY" or "REC", and press the MEMORY button.**



The illustrations show the daily timer setting.

6 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the hour and then press the MEMORY button.**



The illustrations show the timer playback setting in the daily timer mode.

7 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the minutes and then press the MEMORY button.**

8 **Set the time to finish as in steps 6 and 7 above.**

9 **Switch input with the ⏮ ◀◀ or ▶▶ ⏭ button, and then press the MEMORY button.**

To select the timer playback source: CD, TUNER, TAPE 1 or TAPE 2.

To select the timer recording source: TUNER.

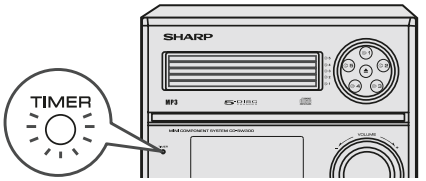
- When you select the tuner, select a station by pressing the ⏮ ◀◀ or ▶▶ ⏭ button, and then press the MEMORY button.
- If a station has not been programmed, "NO PRESET" will be displayed and timer setting will be cancelled.

10 **Adjust the volume using the VOLUME control, and then press the MEMORY button.**

Do not turn the volume up too high.

11 **Press the ON/STAND-BY button to enter the power stand-by mode.**

The "TIMER" indicator lights up and the unit is ready for timer playback or timer recording.



Continued to the next page

Timer and sleep operation (Remote control only) (continued)

12 When the preset time is reached, playback or recording will start.

The volume will increase gradually until it reaches the preset volume.

13 When the timer end time is reached, the system will enter the power stand-by mode automatically.

Once timer:

The timer will be cancelled.

Daily timer:

The timer will operate at the same time every day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.

Note:

When performing timer playback or recording using another unit connected to the GAME INPUT sockets, select “GAME” in step 9. This unit will turn on or enter the power stand-by mode automatically, however, the connected unit will not turn on or off.

Checking the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE” or “DAILY”, and press the MEMORY button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE CALL” or “DAILY CALL”, and press the MEMORY button. The unit returns to the timer stand-by mode after displaying the settings in order.

Cancelling the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE” or “DAILY”, and press the MEMORY button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE OFF” or “DAILY OFF”, and press the MEMORY button. Timer will be cancelled (the setting will not be cancelled).

Reusing the memorised timer setting:

The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.

1 Turn the power on and press the CLOCK/TIMER button.
2 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE” or “DAILY”, and press the MEMORY button.
3 Within 10 seconds, press the I◀◀ ◀◀ or ▶▶ ▶▶I button to select “ONCE ON” or “DAILY ON”, and press the MEMORY button.
4 Press the ON/STAND-BY button to enter the power stand-by mode.

■ Sleep operation

The radio, CD, MP3/WMA disc and cassette tape can all be turned off automatically.

1 **Play back the desired sound source.**

2 **Press the CLOCK/TIMER button.**

3 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP", and press the MEMORY button.**

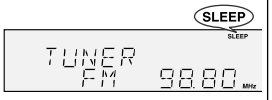
4 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select the time.**

(Maximum: 3 hours - Minimum: 1 minute)

- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

5 **Press the MEMORY button.**

"SLEEP" will appear.



6 **The unit will enter the power stand-by mode automatically after the preset time has elapsed.**

The volume will be turned down 1 minute before the sleep operation finishes.

To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP X : XX".
"X : XX" is remaining sleep time.

- The remaining sleep time is displayed for about 10 seconds.
- You can change the remaining sleep time whilst it is displayed by pressing the MEMORY button.

To cancel the sleep operation:

Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the unit to the stand-by mode, proceed as follows.

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP OFF", and press the MEMORY button.

■ To use timer and sleep operation together

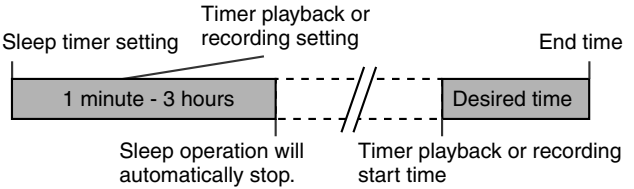
Sleep and timer playback:

For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

Sleep and timer recording:

For example, you can fall asleep listening to the CD and record radio programmes whilst sleeping.

1 Set the sleep time (see left, steps 1 - 5).
2 Whilst the sleep timer is set, set the timer playback or recording (steps 2 - 10, pages 38 - 39).

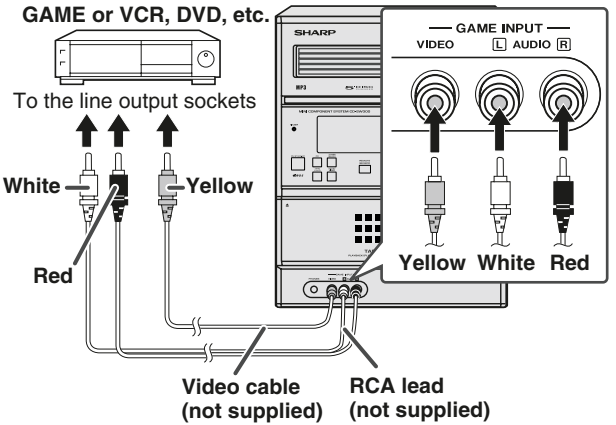

Timer playback or recording setting
Sleep timer setting
End time
1 minute - 3 hours
Desired time
Sleep operation will automatically stop.
Timer playback or recording start time

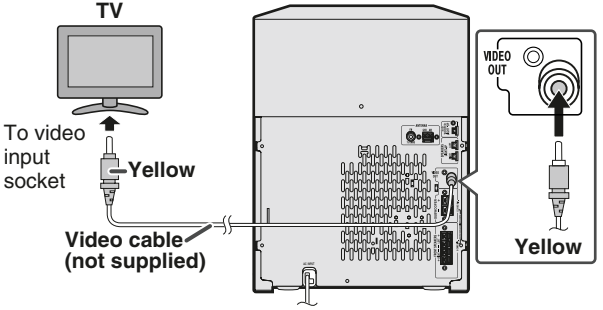
Caution:

When using the cassette deck, be sure the tape length is long enough to perform both functions. If you want to sleep and wake up listening to a tape, and the length of the tape is shorter than the sleep timer setting, timer playback or recording will not be possible.

Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.





■ Listening to playback sounds of Game, VCR, DVD, etc.

1 **Connect a video game system, VCR, DVD, etc. to the front GAME INPUT (VIDEO, AUDIO L and R) sockets.**

2 **Connect a TV to the rear VIDEO OUT sockets.**

Switch the TV input to auxiliary.

3 **Press the ON/STAND-BY button to turn the power on.**

4 **Press the GAME/VIDEO button.**

5 **Play the connected equipment.**

You can enjoy sounds from the supplied speakers and images on the TV.

Note:
To prevent noise interference, place the unit away from the television.

Auto power on function:
When you press any of the following buttons, the unit turns on.

- GAME/VIDEO button (main unit and remote control): The unit turns on and the “GAME” function is activated.
- ► / ⊂ button on the main unit: The unit turns on and playback of the last function starts (CD,TAPE,TUNER,GAME/VIDEO).

■ To record on a tape from game, VCR, etc.

1 **Insert a cassette in the TAPE 2 cassette compartment.**

2 **Press the GAME/VIDEO button.**

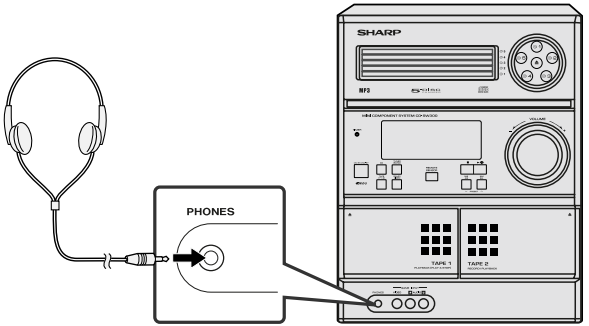
3 **Press the ●II button.**

4 **Press the ► / ⊂ (Tape ►) button.**

5 **Start the game system, VCR, etc.**

■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and impedance between 16 and 50 ohms. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.



Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock. (Refer to page 15.)
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 45.)
● No sound is heard.	● Is the volume level set to “0”? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or does not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

Troubleshooting chart (continued)

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there any slack? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it is located nearby.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

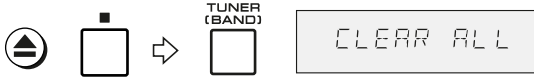
1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ⏏ button and the ■ button, press the TUNER (BAND) button until “CLEAR ALL” appears.



Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

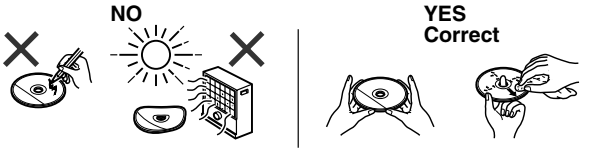
■ Before transporting the unit

Remove all CDs from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

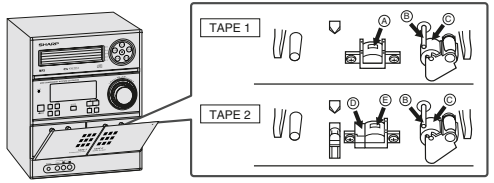
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



Maintenance

■ Cleaning the tape-handling parts

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



Ⓐ Playback head
Ⓑ Capstans
Ⓒ Pinch rollers
Ⓓ Erase head
Ⓔ Recording/Playback head

- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

■ Cleaning the CD pickup lens

Poor performance during CD playback (skipping or jumping) can be caused by a dirty or contaminated CD laser pick up lens. If this happens then the use of a commercially available CD lens cleaning discs may restore normal operation. Contact your supplier or local CD software dealer to obtain CD lens cleaning discs. Ensure all included instructions/documentation are carefully followed.

Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption CD-SW300H	Power on: 225 W Power stand-by: 0.6 W (*)
Power consumption CD-SW330H	Power on: 235 W Power stand-by: 0.6 W (*)
Dimensions	Width: 260 mm (10-1/4") Height: 330 mm (13") Depth: 323 mm (12-7/8")
Weight	10 kg (22 lbs.)

* This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 12 to cancel the demonstration mode.

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 522 - 1,620 kHz

■ Amplifier

Output power CD-SW300H	Front Speaker: RMS: 200 W (100 W + 100 W) (10% T.H.D) RMS: 156 W (78 W +78 W) (0.9% T.H.D)
	Subwoofer: RMS: 200 W (10% T.H.D) RMS: 166 W (0.9% T.H.D)
Output power CD-SW330H	Front Speaker: RMS: 230 W (115 W + 115 W) (10% T.H.D) RMS: 170 W (85 W + 85 W) (0.9% T.H.D)
	Subwoofer: RMS: 220 W (10% T.H.D) RMS: 170 W (0.9% T.H.D)
Output terminals	Front Speakers: 6 ohms Subwoofer: 12 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p
Input terminals	Game/ Auxiliary (audio signal): 500 mV/ 47 k ohms Game/Video: 1Vp-p

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3% (WRMS)

■ Front speaker

Type	3-way type speaker system Super tweeter 5 cm (2") tweeter 16 cm (6-5/16") woofer
Maximum input power CD-SW300H	200 W
Maximum input power CD-SW330H	230 W
Rated input power CD-SW300H	100 W
Rated input power CD-SW330H	115 W
Impedance	6 ohms
Dimensions	Width: 200 mm (7-7/8") Height: 330 mm (13") Depth: 231 mm (9-1/8")
Weight	3.3 kg (7.3 lbs.) /each

■ Subwoofer

Type	Full Range 20 cm (8") subwoofer
Maximum input power CD-SW300H	400 W
Maximum input power CD-SW330H	440 W
Rated input power CD-SW300H	200 W
Rated input power CD-SW330H	220 W
Impedance	12 ohms
Dimensions	Width: 250 mm (9-13/16") Height: 330 mm (13") Depth: 294 mm (11-9/16")
Weight	5.9 kg (13 lbs.)

TERMS OF GUARANTEE

Sharp Electronics (UK) Ltd. (“Sharp”) guarantees to provide for the repair, or at its option the replacement, of this product subject to the conditions listed below:-

1. This guarantee shall only apply to faults which are due to inferior workmanship or materials. It does not cover faults or damage caused by accident, misuse, fair wear and tear, neglect, tampering with the product, or repair other than by a Service Facility appointed by Sharp.

2. As this product is intended for private domestic use only, the guarantee will not apply if the product is used in the course of a business, trade or profession.

3. To benefit from this guarantee, any fault which occurs must be notified to Sharp, or its appointed Service Facility within one year from the date this product was purchased. Proof of purchase must be provided.

4. The guarantee does not cover carriage costs, audio tapes, compact discs or batteries.

5. In the unlikely event of this product requiring repair, please contact the supplier from whom it was purchased. Where this is not possible, please contact the Sharp Customer Information Centre on the telephone number given below.

6. No person has any authority to vary the terms or conditions of this guarantee.

7. This guarantee is offered as an additional benefit to your statutory rights, and does not affect these rights in any way.

If you have any difficulty operating this product, or would like information on other Sharp products, please telephone the Sharp Customer Information Centre on the number given below.

Sharp Customer Information Centre - Telephone 08705 274277
(or (01) 676 0648 if telephoning from Ireland)

Customer support website address - www.sharp.co.uk/customersupport.aspx

SHARP

SHARP ELECTRONICS (U.K) LTD.
4 Furzeground Way, Stockley Park, Uxbridge, Middlesex, UB11 1EZ.

SHARP CORPORATION

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